

FIG. 1A

1	CGCGCCGCCGCCGCCACCGCCCACTCGGGGCTGGCCAGCGCGCGCGCGCGCGGGGCGGCGAGAACCGCCTGGCTGGGCGAG	90
	<u>M A P W L Q L C S V F P T V N A C L N G S</u> Q L A	
81	CGCAGCGGCATGGCCCCGTGGCTGCGAGCTCTGCTCCGTCTCTTTACGGTCAACGCCTGCTCAACGGCTCGCAGCTGGC	160
	V A A G G S G R A R G A D T C G W R G V G P A S R N	
161	TGTGGCCGCTGGCGGGTTCGGCCCGCGCGCGGGGCGCCGACACTGTGGCTGGAGGGGAGTGGGGCCAGCCAGCAGAAACA	240
	S G L Y <u>N I T</u> F K Y D <u>N C T</u> T Y L N P V G K H V I A D	
241	GTGGGCTGTACAACATCACTTCAAATATGCAATTGTACCACCTACTTGAATCCAGTGGGGAAGCATGTGATTGCTGAC	320
	A Q <u>N I T</u> I S Q Y A C H D Q V A V T I L W S P G A L G	
321	GCCCAGAATATCACCATCAGCCAGTATGCTTGCCATGACCAAGTGGCAGTCACCACTCTTTGGTCCCCGAGGGCCCTCGG	400
	I E F L K G F R V I L E E L K S E G R Q C Q Q L I	
401	CATCGAATCTCTGAAGGATTTCCGGTAATCTGGAGGAGCTGAAGTCGGAGGGAAGACAGTGCACCAACTGATTCTAA	480
	K D P K Q L <u>N S S</u> F K R T G M E S Q P F L N M K F E T	
481	AGGATCCGAAGCAGCTCAACAGTAGCTTCAAAAGAACTGGAATGGAATCTCAACCTTTCTCGAATATGAAATTTGAAACG	560
	D Y F V K V V P F P S I K <u>N E S</u> N Y H P F F R T R A	
561	GATTATTTCGTAAGGTTGTCCCTTTTCTTCCATTAAAAACGAAAGCAATTACCACCTTTCTTCTTTAGAACCCGAGC	640
	C D L L L Q P D N L A C K P F W K P R N L <u>N I S</u> Q H	
641	CTGTGACCTGTGTGTACAGCCGGACAATCTAGCTTGTAAACCTTCTGGAAGCCTCGGAACCTGAACATCAGCCAGCATG	720
	G S D M Q V S F D H A P H N F G G R F F Y L H Y K L K	
721	GCTCGGACATGCAAGTGTCTTTCGACCAAGCAGCCGACCACTTCGGGCTTCGGTTCTTCTATCTTCACTACAAGCTCAAG	800
	H E G P F K R K T C E Q E Q T T E M T S C L L Q <u>N V S</u>	
801	CACGAAGGACCTTTCAAGCGAAAGACCTGTGAGCAGGAGCAAACTACAGAGATGACCAAGCTGCCTCTTCAAAATGTTTC	880
	P G D Y I I E L V D D T <u>N N T</u> R K V M H Y A L K P V	
881	TCCAGGGGATTATATAATTGAGCTGGTGGATGACCTAACCAACAAGAAAGTATGCAATGATGCCCTTAAAGCCAGTGC	960
	H S P W A G P I R A V A I T V P L V I S A F A T L F	
961	ACTCCCGTGGCGCGGCCATCAGAGCCGCTGGCCATCAGTGCACCTGGTAGCTATATCGGCATCTCGCAGCGCTCTTC	1040
	<u>T V M C R K K Q Q E N I Y S H L D E E S S E S T Y T</u>	
1041	ACTGTGATGTGCCGCAAGAAGCAACAAGAAATATATATTACATTAGATGAAGAGAGCTCTGAGTCTTCCACATACAC	1120
	A A L P R E R L R P R K V F L C Y S S K D G Q N H	
1121	TGCAGCATCCCAAGAGAGAGGCTCCGGCCGCGCGCGAAGGCTTTCTCTGCTATTCCAGTAAAGTGGCCGAGAAATCACA	1200
	M N V V Q C F A Y F L Q D F C G C E V A L D L W E D F	
1201	TGAATGTGCTCCAGTGTTCGGCTACTTCTCTCCAGGACTTCTGTGGCTGTGAGGTGGCTCTGGACCTGTGGGAAGACTTC	1280
	S L C R E G Q R E W V I Q K I H E S Q F I V V C S K	
1281	AGCCTCTGTAGAGAAGGCGAGAGAATGGGTATCCAGAAGATCCACGAGTCCAGTTCATCATTTGTGGTTTGTCCAA	1360
	G M K Y F V D K K N Y K H K G G R G S K G K E L F	
1361	AGGTATGAAGTACTTTGTGGACAAGAAGAACTACAAACAAGAAGAGGTGGCCGAGGCTCGGGGAAAGAGAGAGCTCTTCC	1440
	L V A V T S A I A E K L R Q A K Q S S A A L S K F I A	
1441	TGGTGGCGGTGTGACGCATTTGCCGAAAAGCTCCGCGAGGCCAAGCAGAGTTCGTCCGCGGCGCTCAGCAAGTTTATCGCC	1520
	V Y F D Y S C E G D V P G I L D L S T K Y R L M D N L	
1521	GTCTACTTTGATTATTCTCGCGAGGAGAGCTCCCGGTATCTTAGACCTGAGTACCAAGTACAGACTGAGCAATCT	1600
	P Q L C S H L H S R D H G L Q E P G Q H T R Q S R	
1601	TCCTCAGCTCTGTTCACCTGCATCTCCGAGACCAAGCGCTTCAGGAGCCGGGCGAGCACGCGCAGGGCAGCAGAA	1680
	R N Y F R S K S G R S L Y A I C N M H Q F I D E E P	
1681	GGAACTACTCTCCGAGCAAGTCAGGCGCGTCCCTATACGTGCGCATTTGCAACATGCAACAGTTTATTGACGAGGAGCC	1760
	D W F E K Q F V P F H P P L R Y R E P V L E K F D S	
1761	GACTGGTTGAAAAGCAGTTCGTTCCCTTCCATCTCTCCACTGCGCTACCGGAGCCAGTCTTGGAGAAATTTGATT	1840
	G L V L N D V M C K P G P E S D F C L K V E A A V L	
1841	GGGCTTGTTTAAATGATGTGATGTGCAAAACAGGGCTGAGAGTGACTTCTGCCTAAAGGTAGAGGCGGCTGTTCTTG	1920
	G A T G C P A D S Q H E S Q H G G L D Q D G E A R P A L	
1921	GGGCAACCGGACCGGACCTCCGACGAGAGATCAGCATGGGGGCTGGACCAAGACGGGGAGGCGCGGCTGCCCTT	2000
	D G S A A L Q P L L H T V K A G S P S D M P R D S G I	
2001	GACGGTAGCGCGCCCTGCAACCCCTGCTGCACCGGTGAAAGCCGCGCAGCCCTCGGACATGCCCGGGAGCTCAGGCAT	2080
	Y D S S V P S S S S L S L P L M E G L S T D Q T E T S	
2081	CTATGACTCGTCTGTGCCCTCATCCGAGCTGTCTCTGCGACTGATGGAAGACTCTCGACGGACACGACGAAAGCTCTT	2160
	S L T G E S V S S S S G L G E E P P A L P S K L L S S	
2161	CCCTGACGAGGAGCGTCTCTCTCTTCAGGCTGGGTGAGGAGGAACCTCTCGCCCTTCTTCCAAAGCTCTCTCTCT	2240
	G S C K A D L G C R S Y T D E L H A V A P L *	
2241	GGGTATGCAAAAGCAGATCTTGGTTGCCGAGCTACACTGATGAATCCACGCGGTGCGCCCTTTGTAAACAAAACGAAAG	2320
	AGTCTAAGCATTTGCCATTTAGCTGTGCTGCCCTCTGATTTCCCGAGCTCATCTCCCTGGTTGCATGGCCCACTTGGAGC	2400
2401	TGAGGTCCTACATCAAGGATATTGGAGTGAAATGCTGGCCAGTACTTGTTCTCTCTTCCCTCCCAACCTTTACCGGATATC	2480
	TTGACAAATCTTCAAAATTTCTAAATGATATGAGGCTCTGAAAGGCATGTCCATAAGGTCTGACAAACAGCTTGCCAAAT	2560
2561	TTGGTTAGTCTTGGATCAGAGCTCTGTGGGAGGTAGGGAGGAAATATGTAAGAAAGAAACAGGAAGATACCTGCTACTA	2640
	ATCATTCAGACTTCATTGAGCTCTGCAAACTTTGCGCTGTTTGGTATTTGCTATTTGCAATCTTGTGAAATCTGTTGAAAAAA	2720
2641	GGCAGCTTTTAACATCATAGCCACAGAAATCAAGTGCCAGTCTATCTGGAATCCATTTGTATTGACAGATATGTTCTCAT	2800
2721	TTATTTTGTATGTAGATATATGATTCGATGGGTGTTAAATAGCTTTTGTAGTCAAAAGTCAAGAAAGTATGATGAATATAC	2880
2801	AGTCAAGCTTTTATGAATGATGCTCTGTGTTACTTGGGTGGCATGACTGATTGAGGTGAAGCTCAGCGGGCC	

2961	GTCTTGACCGTTCCACTTGAGATAGGTTGGTCATCGTGCAGAAGGCCCCAGGACCTCAGCACACACAGCCTCCTCTTGGT	3040
3041	CTGAGTAGGCATCATGTGGGGCCAGATCTGCCTGCTGTTTCCATGGGTTACATTACTGTGCTGTATCTCAGATGTTGG	3120
3121	TGTCCTGGAAAGTTTATTTCTTAAGAGACTGCTACCCAGCTGGTCTGTATTATGGAAAGTTGCAGTTCTGTGCTTTGGTTGGCC	3200
3201	TTCTGGTCTAAAGCTGTGTCCTGAATATTAGGGATCACAATTCACTGAAATACAGCAGTGTGTGGAGGTGATGGCCAGTT	3280
3281	AATCTGCTGAACCTGGTTTGAATAATGACAAACCTCTTTTAAAGATGGTAGAATGAGGTTGATAGTCACAAAAGTAAATG	3360
3361	TTCCATTTTATGAATGACTTTCTACAGAGTTTCTATTCTAAAGAAAAACAATTGTTACATCCCATCTGATGATTAG	3440
3441	CATGTGTGAATGAATGCTGTCTTGGTCTCCCTGTGGAAACCCCTTCTCCCTGTGCCTTAGAGCAGGTGTGTACATCTCT	3520
3521	CACTACCTTTCTCATGGGTGCTGTAGATTTTGGCACCCGTTTTCTCAGCATTGAGCCAGGGAATGTGGTTTCACTTC	3600
3601	TTCTGCAGATAAGACCAACATGAAGGGGTATGTTGAGAAACATCCTGAGGCAAGGTGGGAGGTGGGATGGGGCAGGACTT	3680
3681	TCCCTTCCAAGCACATGCATGGCAGGTGGGAAAGGGGGGCTTGACCCCTGCTGGAAAGAAAAGGTTTGTGTATATTTC	3760
3761	TGATGCRAATGTCTACTCACTGCTCTGTAAAGGCAGCTGGCAGCTTTTGGGAAAAGAACGTGCTGCTGTCTCTGG	3840
3841	CATCAAGTTTCTTGACGCTGCTCTGAGGGAGAGACAGTGAGCTGCAAGACTGCCTCCCCATAACAACAGGCAACTCAGAG	3920
3921	AAGAGTCATTTTATGTTGTTTCTATGGAATCTGGAATGAGTGCAGAGCTCTACCCACACATGACTGCCCCGCCATTTCA	4000
4001	TCCTAGGCATTCTGTGAAGGAGATTGGTTAGTCCAACTTGCTAACATACGAAAATTCACTTGGAAACATGATGAGAGATT	4080
4081	TCTTATTGAGGCCAAGAGATGTTTCTGTCCCAGAGGAACATTAGGAGTCGCTTTTAGGGTATTGAGCTTTGTTTATGA	4160
4161	AATAAGGCATCTCTGAGAAAGTGGCCCCAGGGAGAGAAATGGAGGACTGGGAGGAGAACATTAACTGAGCTCCAAGGGTG	4240
4241	TGTGGGCAGAGAGCTTGTATGTGAACTCACTCCTTAAGAAAAATGGAAGAGAAAAAGAGACTGCTAGTTAAAAAATCGGG	4320
4321	ATGTTTTAGTTTGGATTAGGTTTTGATACTTATGTTGAAATACTAATGTTTCTGATCAATAAAATCAAACTCTTAATA	4400
4401	TACCGAGTAATGAAACCATAGTGTGATTGCCTCAGAAATAAATTGAGAAGTCCAAAAAAAAAAAAAAAAAAAAAAAAA	4477

FIG.1A ( Cont'd )

		10	20	30	40	50	60	
hIL-17RLM-L	1	MAFWLQLCNVPTTVNACLNGSOLA VAAGGSGRARGADTCGWRGVGPAARNRGLYNITPKY						60
hIL-17RLM-S	1	-----						1
		70	80	90	100	110	120	
hIL-17RLM-L	61	DNCTTYLNPVGKHVIADAQNITISQYACHDQAVTILWSPGALGIEPLKGFVILEELK9						120
hIL-17RLM-S	1	-----						1
		130	140	150	160	170	180	
hIL-17RLM-L	121	EGRCQQQLIKDPEKQLNSSFRRKTMESQFFLNMKFETDYFVKVVFPPSIKKNESNYHPPFF						180
hIL-17RLM-S	1	-----MESQFFLNMKFETDYFVKVVFPPSIKKNESNYHPPFF						36
		190	200	210	220	230	240	
hIL-17RLM-L	181	RTACDILLQPDNLACKPFWKPRNLNISQHGSDMQVSPDHAPHNFGFRFFYLHYKLKHEG						240
hIL-17RLM-S	37	RTACDILLQPDNLACKPFWKPRNLNISQHGSDMQVSPDHAPHNFGFRFFYLHYKLKHEG						96
		250	260	270	280	290	300	
hIL-17RLM-L	241	PFRRKTCEQEQTTEMTSCLLQNVSPGDYIELVDDTNTTRKVMHYALKPVHSPWAGPIRA						300
hIL-17RLM-S	97	PFRRKTCEQEQTTEMTSCLLQNVSPGDYIELVDDTNTTRKVMHYALKPVHSPWAGPIRA						156
		310	320	330	340	350	360	
hIL-17RLM-L	301	VAITVPLVVISAFATLFTVMCRKKQENIYSHLDEESSSESTYTAALPRERLRPRPKVFL						360
hIL-17RLM-S	157	VAITVPLVVISAFATLFTVMCRKKQENIYSHLDEESSSESTYTAALPRERLRPRPKVFL						216
		370	380	390	400	410	420	
hIL-17RLM-L	361	CYSSKDGQNHMNVVQCFAFYFLQDFCGCEVALDLWEDFSLCREGQREWVIQKIHESQPTIV						420
hIL-17RLM-S	217	CYSSKDGQNHMNVVQCFAFYFLQDFCGCEVALDLWEDFSLCREGQREWVIQKIHESQPTIV						276
		430	440	450	460	470	480	
hIL-17RLM-L	421	VCSKGMKYFVDKKNYKHKGGRGSGKGELFLVAVSAIAEKLRQAKQSSSAALSKPIAVYF						480
hIL-17RLM-S	277	VCSKGMKYFVDKKNYKHKGGRGSGKGELFLVAVSAIAEKLRQAKQSSSAALSKPIAVYF						336
		490	500	510	520	530	540	
hIL-17RLM-L	481	DYSCEGDVPGLDLSTKYRLMDNLPQLCSHLHSDHGLQEPGQHTROGSRARNYFRSKSGR						540
hIL-17RLM-S	337	DYSCEGDVPGLDLSTKYRLMDNLPQLCSHLHSDHGLQEPGQHTROGSRARNYFRSKSGR						396
		550	560	570	580	590	600	
hIL-17RLM-L	541	SLYVAICNMHQFIDEEDWFERQFVFFHPPPLRYREPVLKFPDGLVINDVMCKPGPE9D						600
hIL-17RLM-S	397	SLYVAICNMHQFIDEEDWFERQFVFFHPPPLRYREPVLKFPDGLVINDVMCKPGPE9D						456
		610	620	630	640	650	660	
hIL-17RLM-L	601	FCLKVEAAVLGATGPADSQHESQHGGLDQDGEARFALDGSAAALQPLLHTVKAGSP9DMFR						660
hIL-17RLM-S	457	FCLKVEAAVLGATGPADSQHESQHGGLDQDGEARFALDGSAAALQPLLHTVKAGSP9DMFR						516
		670	680	690	700	710	720	
hIL-17RLM-L	661	DSGIYDSSVPSSSEL9LPLMEGLSTDQTETSSLTESVSSSSGLGEEPPALPSKLLSSG9C						720
hIL-17RLM-S	517	DSGIYDSSVPSSSEL9LPLMEGLSTDQTETSSLTESVSSSSGLGEEPPALPSKLLSSG9C						576
		730						
hIL-17RLM-L	721	KADLGCRSYTDELHAVAPI						739
hIL-17RLM-S	577	KADLGCRSYTDELHAVAPI						595

FIG. 1B

```

IL-17AR      353 EKYSDDTKYTDGLPAADLIFFELKPRKVIYISA-DHPLYVDVVLKFAQFILTACGTEVA 411
               E+ S+ + YT LF L F E KV++ YS+ D +++VV FA FL CG EVA
hIL-17RLM-L 335 EESSSTYTAALPRELPRER-----KVFLCYSSRDGQNMNVVQCFAYFLQDFCGCEVA 390

IL-17AR      412 LDIIEEQAISEAGVMTVVGRQKQEMVESNSKIIVLCSPGTR-----AKVQALLGRGAPVRL 467
               LDI E+ ++ G WV + + + IIV+CS+G + K G G
hIL-17RLM-L 391 LDIWEDFSLCREGQRETV-----IQKIHESQFLIVCSNGMKYFVDNKVYKHGCG----- 441

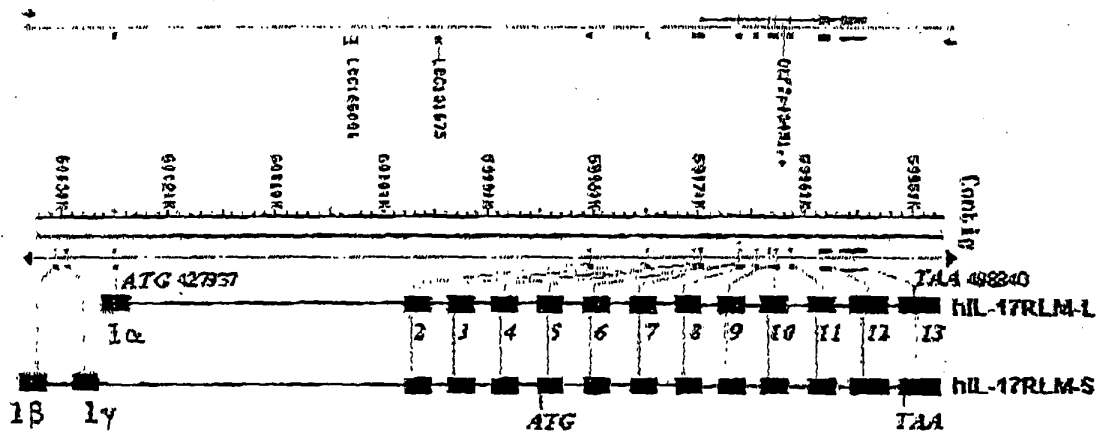
IL-17AR      468 RCDHGKPVGDLETAAMMILPDKFR-----FACFGTYVVCYFSEVSCDGDVFDLFGAAPR 522
               G G+LF A++ I ++ A ++ YE + SC+GDVF + + +
hIL-17RLM-L 442 ---AGSGKGELELVAVSATAEKLQAKQSSSAALSKFIAYYE-DYSCGEGDVEGILDSTK 497

IL-17AR      523 YPILMDRFEV--YFRIQDLEMFQPRMHRVGEISGDNYLRSPGGROTRAALDRFDWQVR 580
               Y LMD ++ + +D + +PG+ R G S NY RS GR L A+ +
hIL-17RLM-L 498 YRLMDNLPQLCSHLHSRDLGLQEPGQHTBOG--SRNRYRSKSGESLYVAICNMHQFIDE 555

IL-17AR      581 CPDWFE 586
               PDWFE
hIL-17RLM-L 556 EPDWFE 561

```

FIG. 1C



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Fig.1D

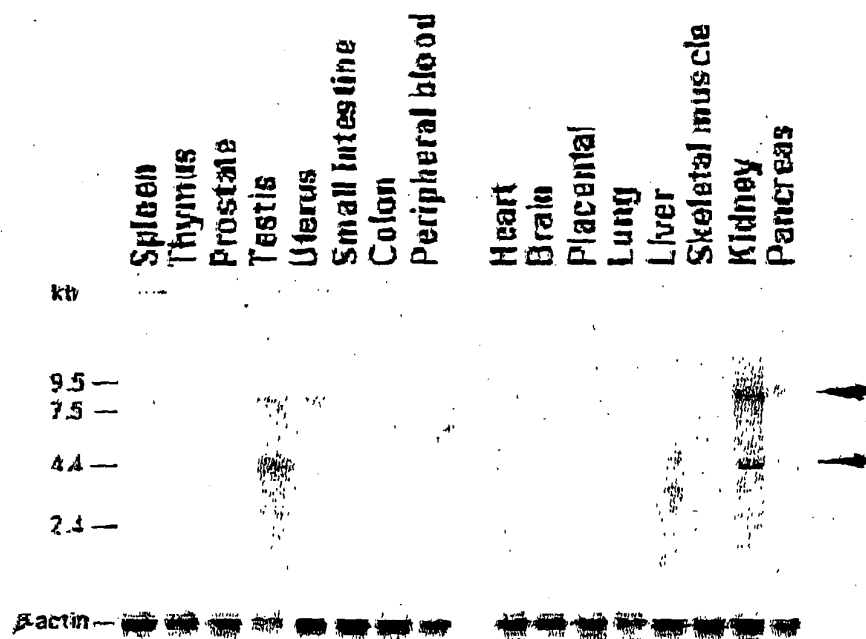


FIG. 2A

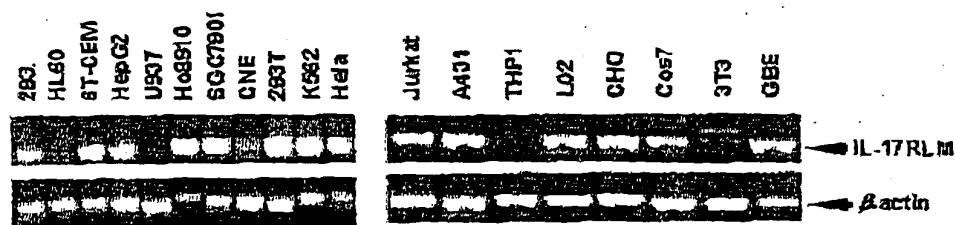


Fig. 2B

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FIG. 2C

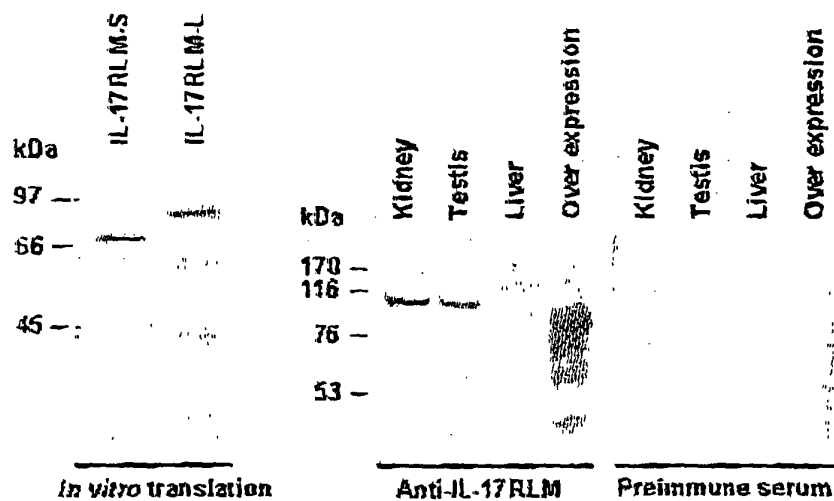
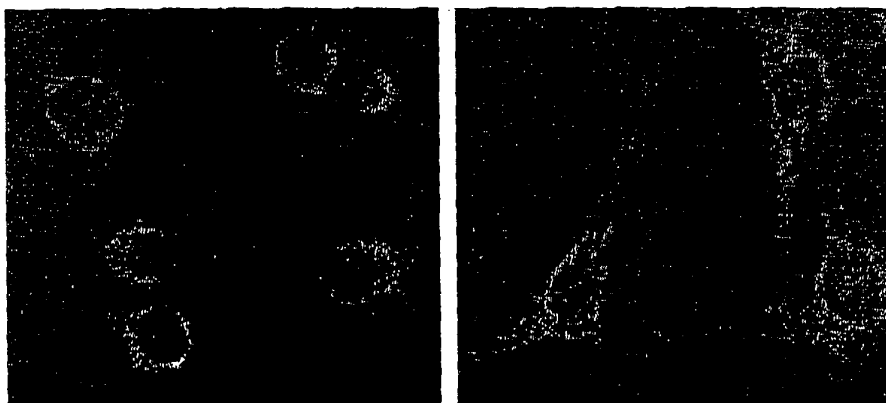


FIG. 2D

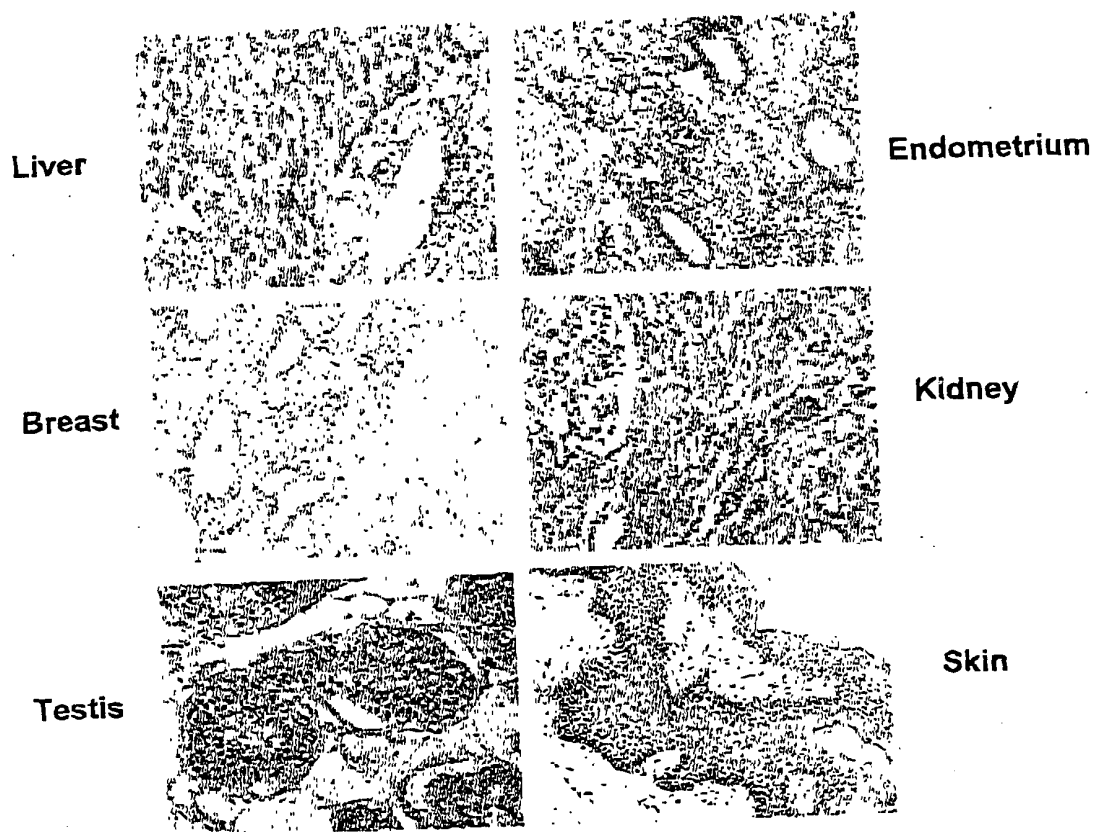
786-O cells

GRC-1



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**FIG. 2E**



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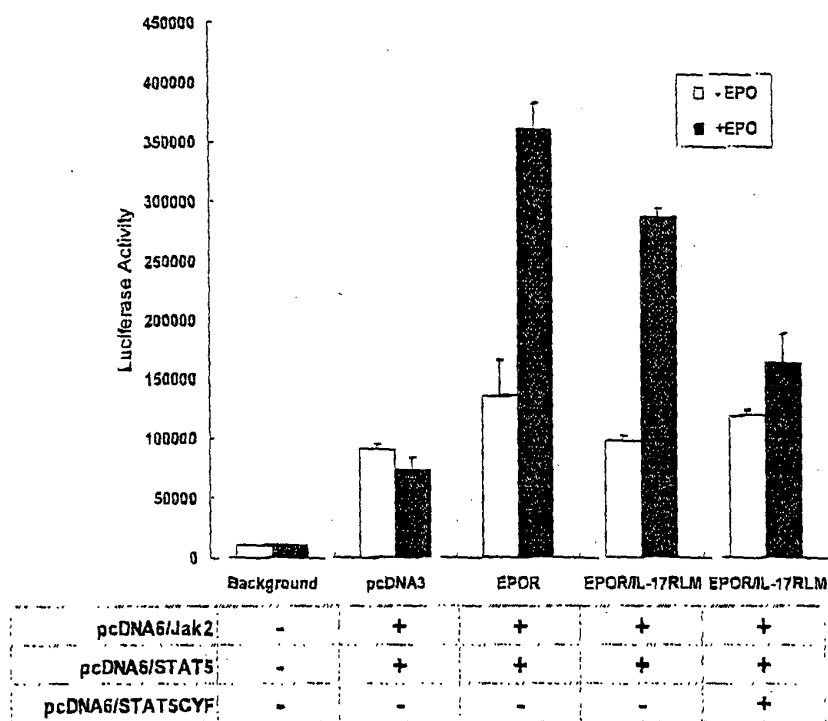
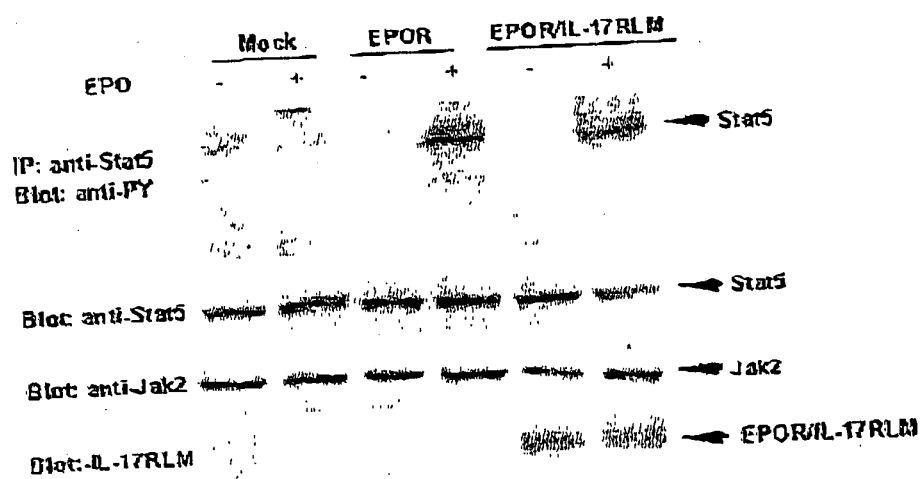


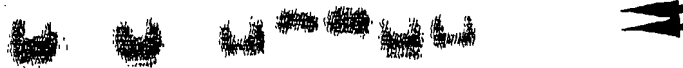
FIG. 3A



**FIG. 3B**

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Antibody:	-	-	-	-	-	-	5ab	5b	3	1	-	-	-
Competitor:	-	-	-	-	s	ns	-	-	-	-	-	+	+
Stat5CYF	-	-	-	-	-	-	-	-	-	-	-	-	+
EPO:	-	+	-	+	-	+	+	+	+	+	+	-	+
	<u>mock</u>		<u>EPOR</u>		<u>EPOR/IL-17RLM</u>						<u>EPOR/IL-17RLM</u>		<u>IL-17RLM</u>



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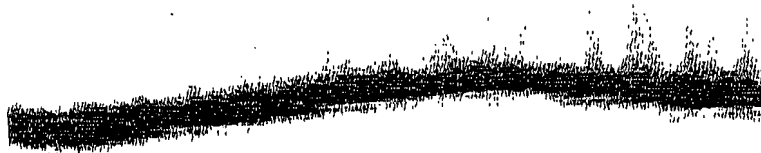
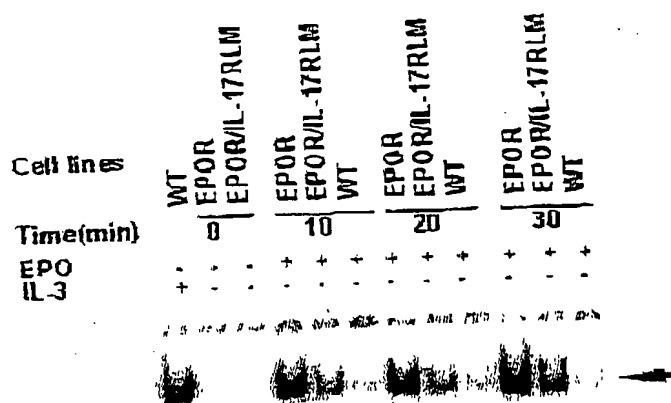


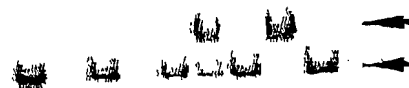
FIG. 3C

FIG. 3D

FIG. 3E



Cell lines	B2/F3	EPOR	EPOR/IL-17RLM			
Competitor	-	-	-	S	NS	-
EPO	-	+	+	+	+	+
Antibody	-	-	-	-	5ab	5a 5b 1



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FIG. 4A

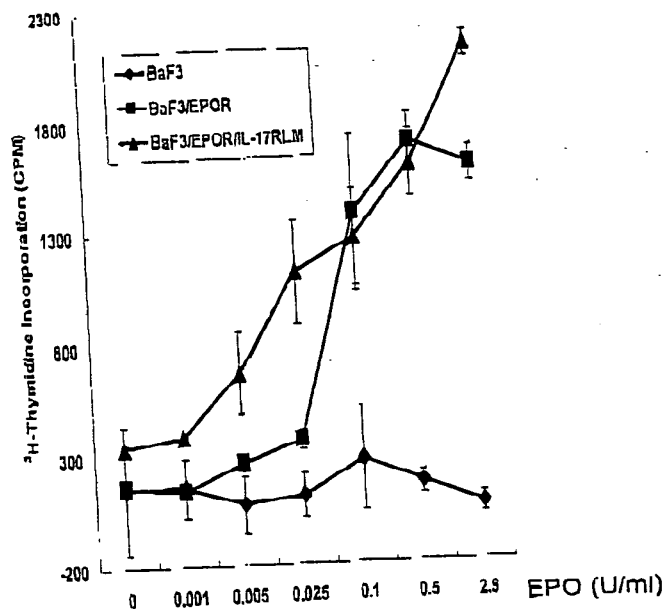
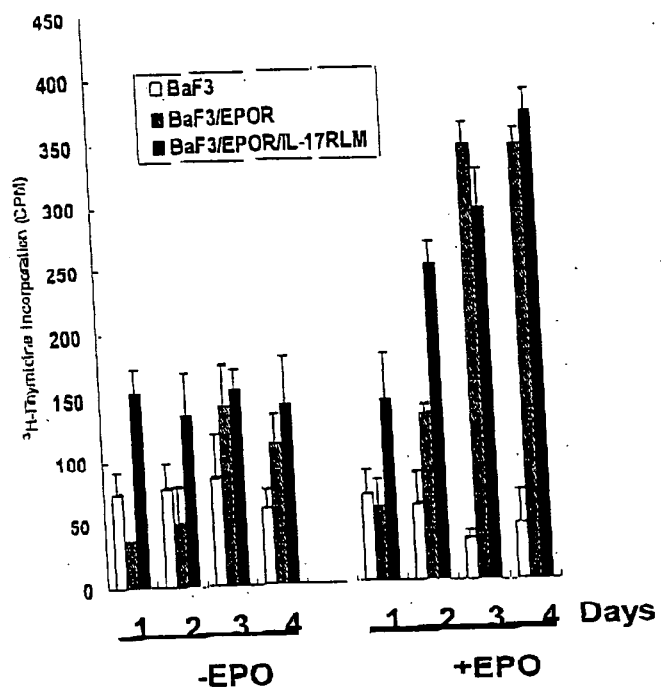
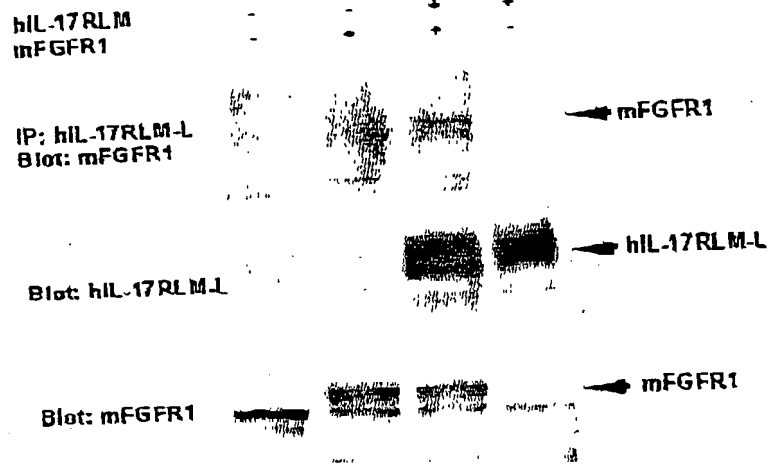


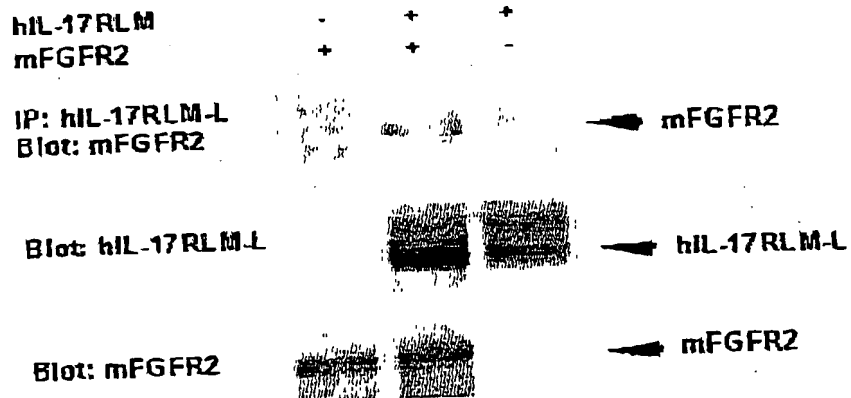
FIG. 4B



**FIG.5A**

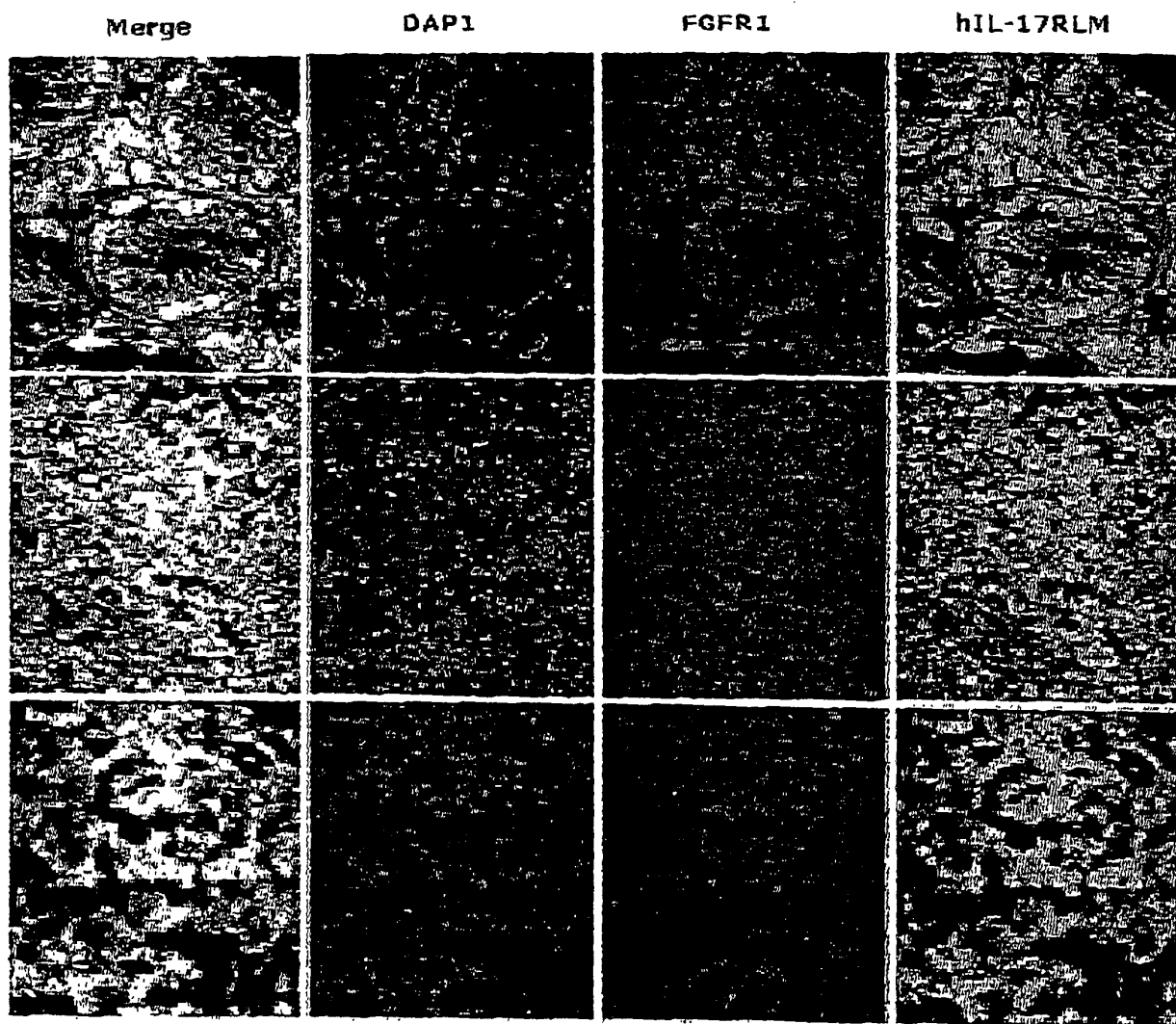


**FIG. 5B**



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**FIG. 5C**



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**FIG. 5D**



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FIG. 6A

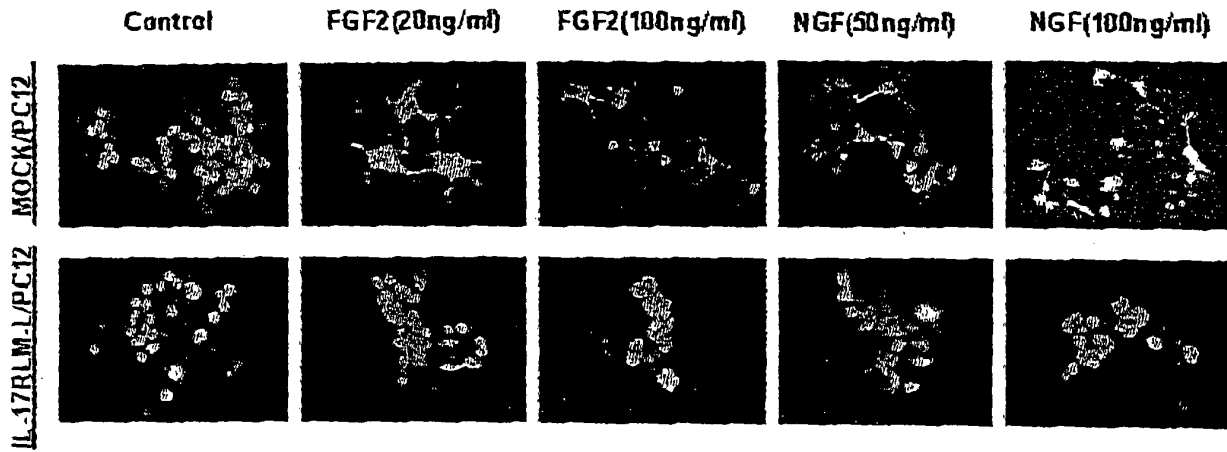
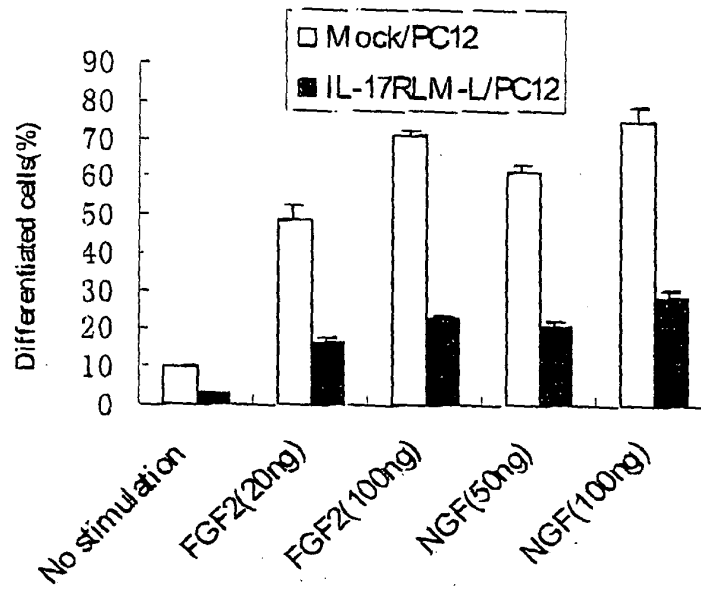


FIG. 6B



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FIG. 6C

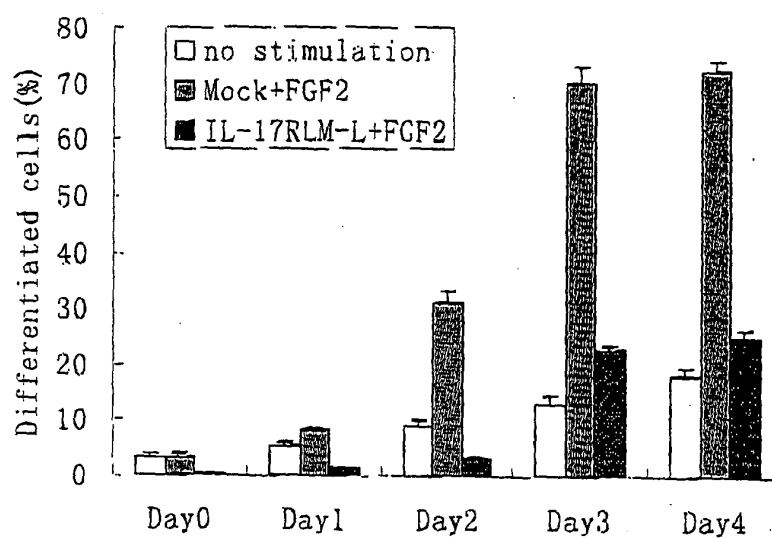


FIG. 6D

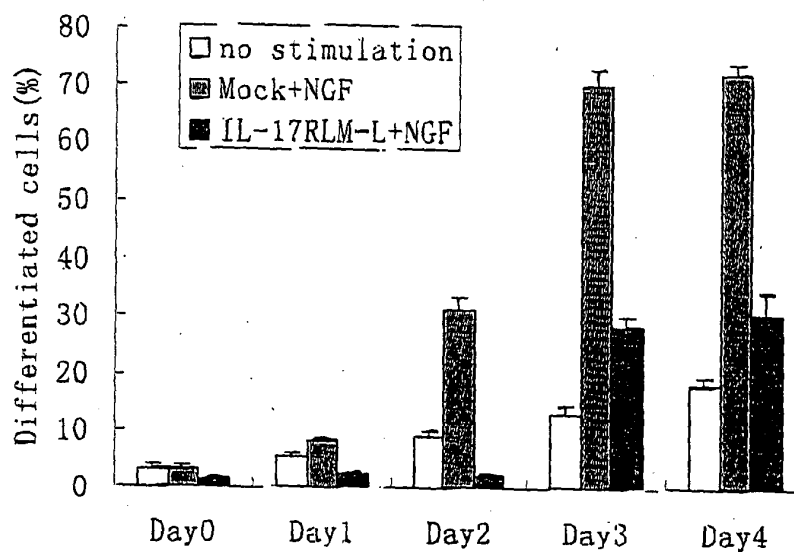
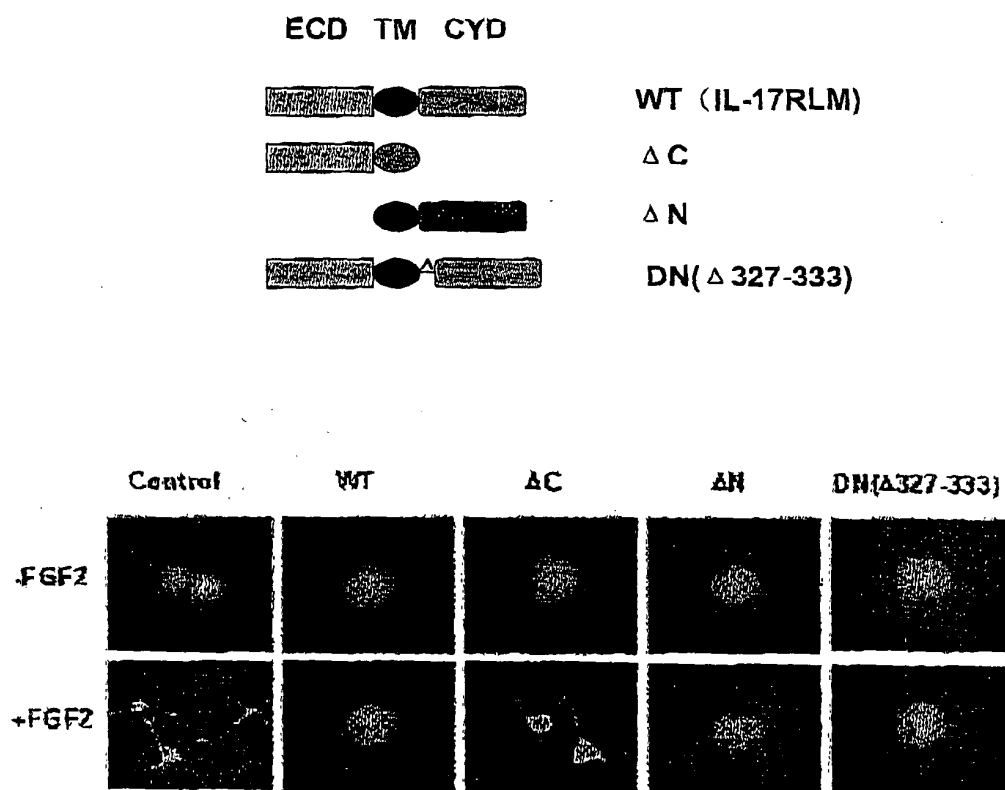
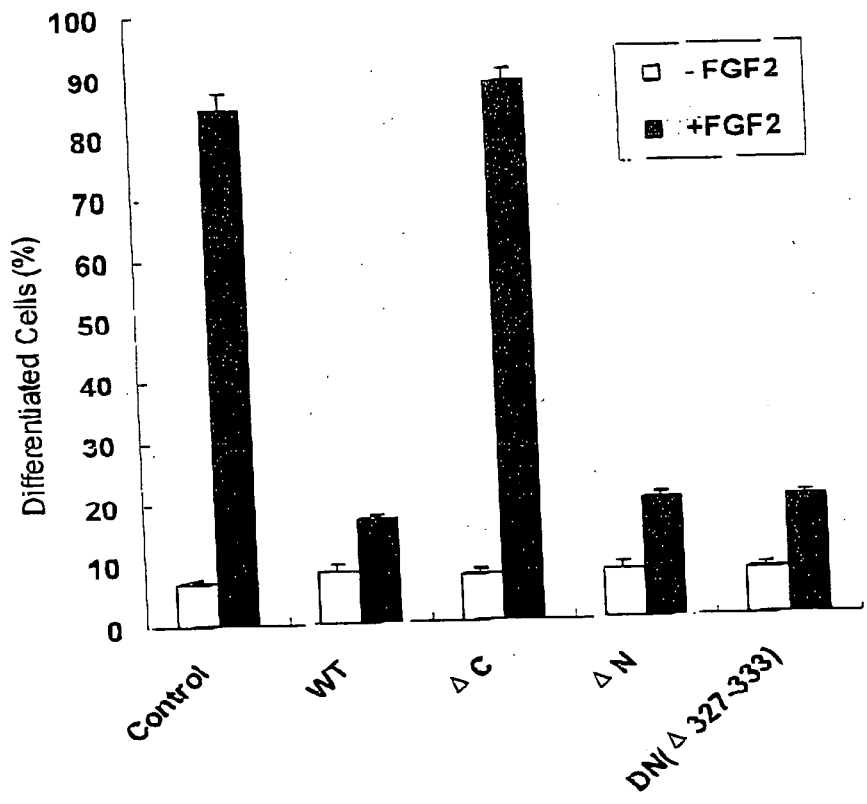


FIG. 6E

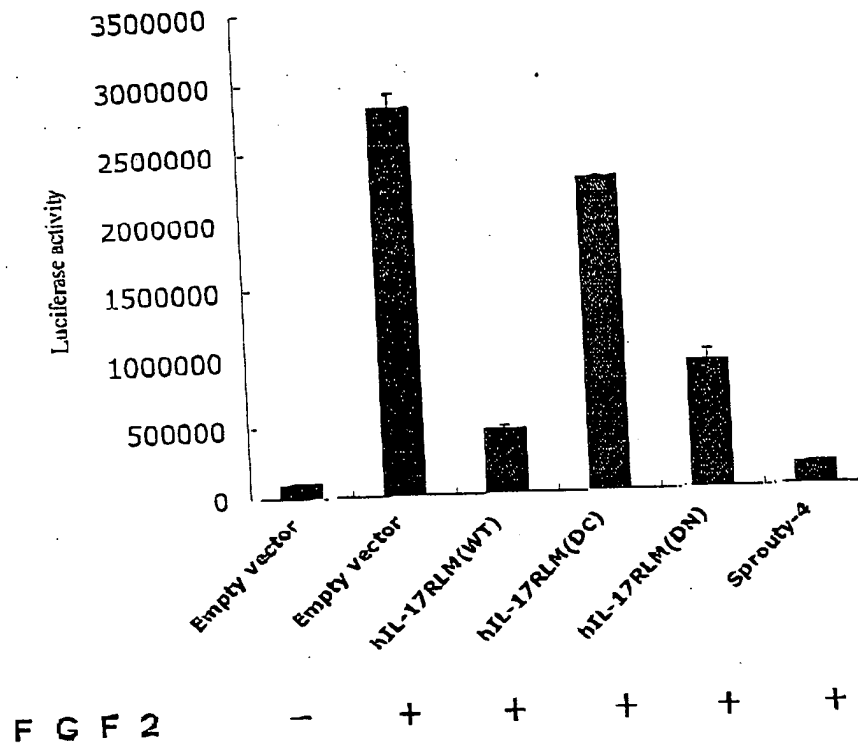


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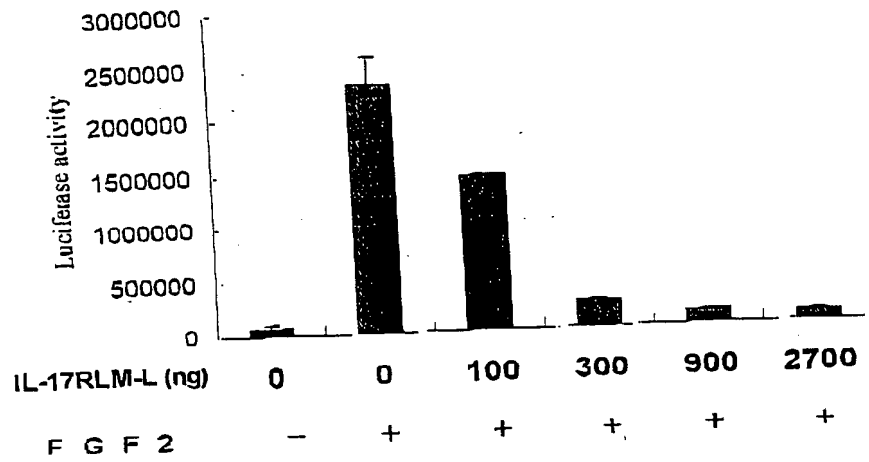
FIG. 6F



**FIG. 7A**



**FIG. 7B**



**FIG. 7C**

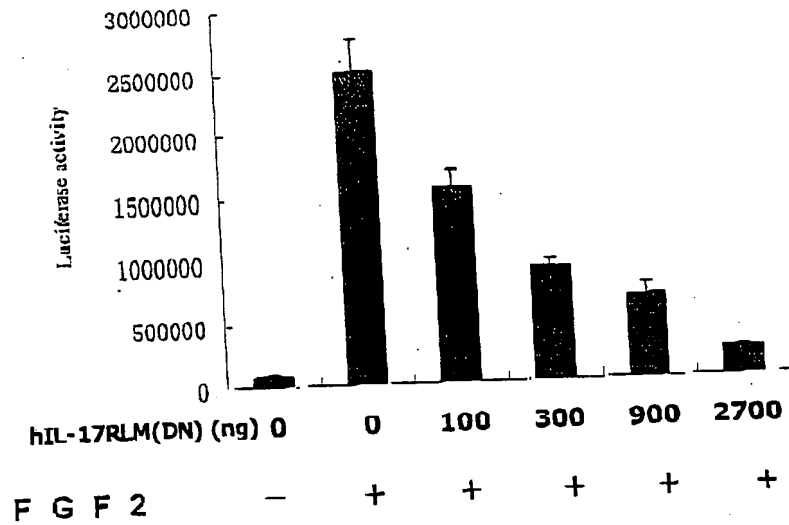


FIG. 7D

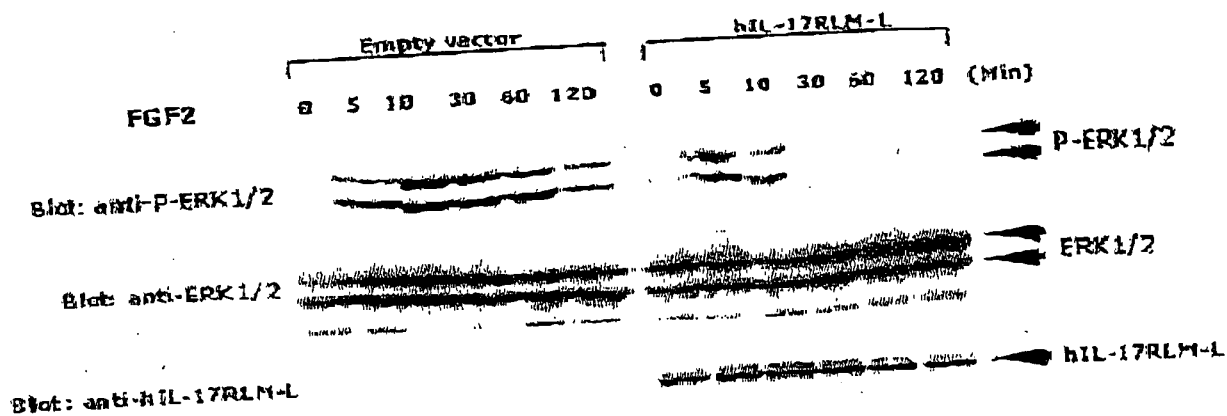
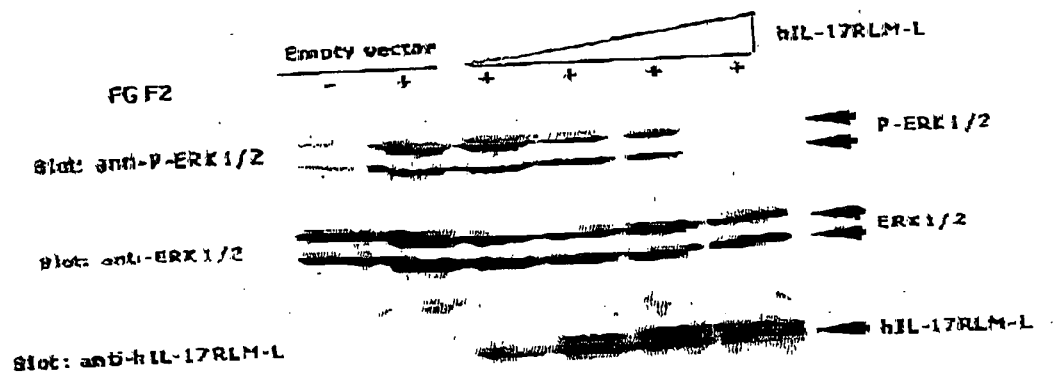
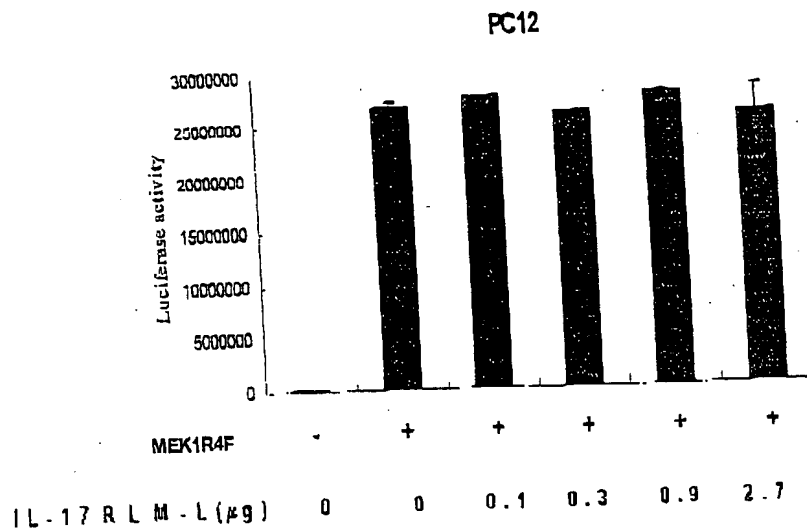


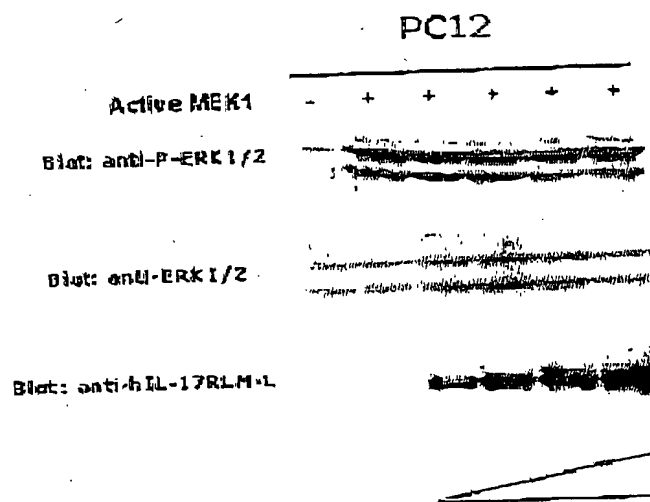
FIG. 7E



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**FIG. 8A**



**FIG. 8B**

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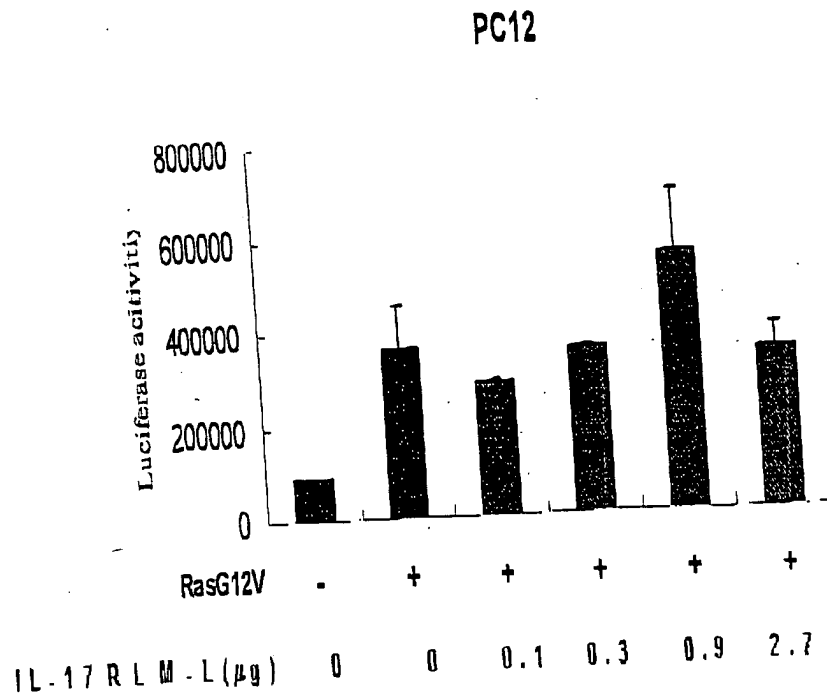


FIG. 8C

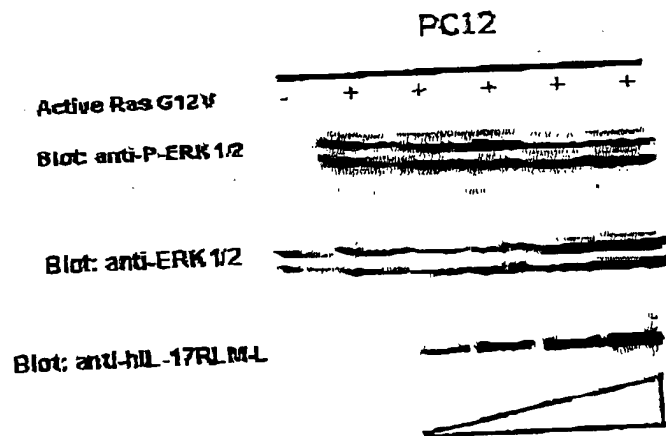


FIG. 8D

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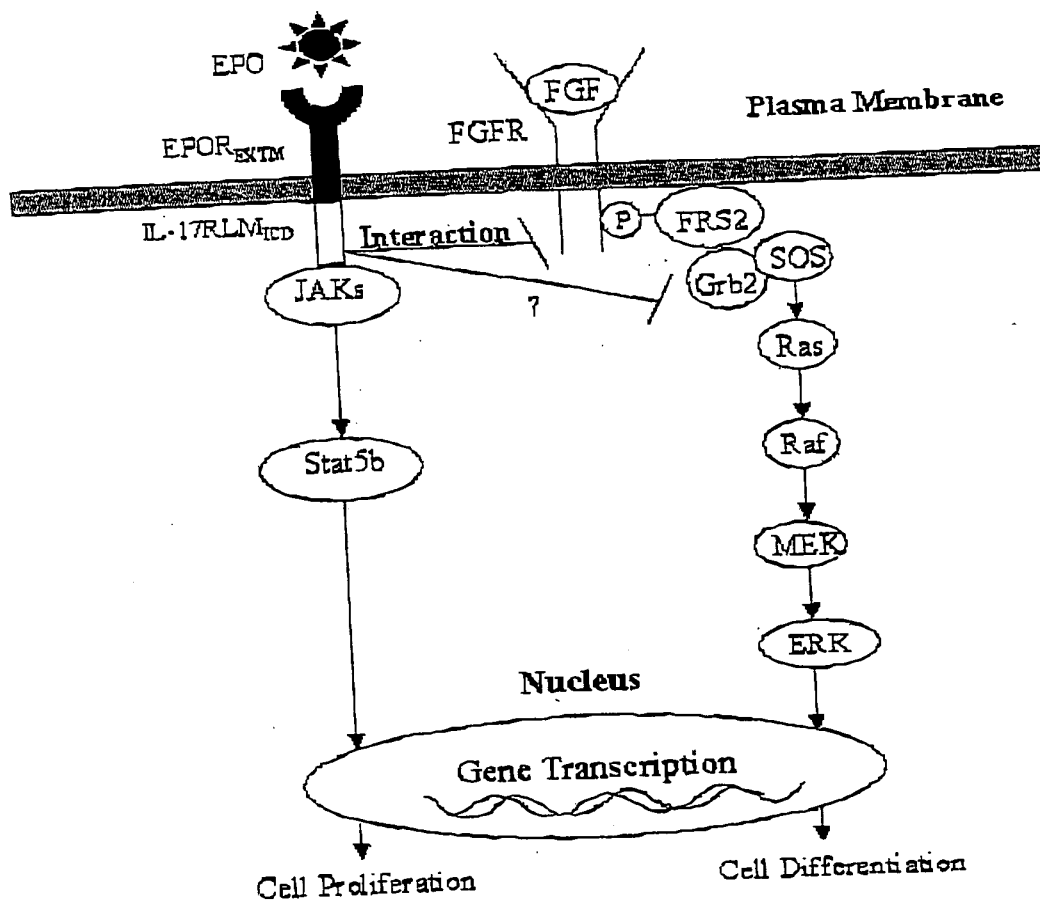


FIG. 9